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fly, but one fly being not enough to bring the young one to its full growth, they feed it with more: Their Theca's are at last all covered over with the wings, legs, and other fragments of flies.

A Letter of Mr. Martin Lister, written at York August 25 1671. confirming the Observation in No 74. about Musk sented Insects; adding some Notes upon D. Swammerdam's book of Insects, and on that of M. Steno concerning Petrify'd Shells.

SIR,

Have observed the two Insects, which Mr. Ray saith, smell of Musk, which indeed they do in an high degree. The small Bees are very frequent in the Wooles in Lincoln shire, and about the latter end of April are to be found in pastures and meadows, upon the early-blown flowers of a sort of Ranunculus, as You have been rightly informed; but it is something improper to say Bees feed on flowers: And likewise the same Bees are no less frequent on the flowers of Dens Leonis, &c. The sweet Beetle, is a very large Insect, and well known about Cambridge. All the trials I have made to preserve them with their smell, have proved inessectual: For, both sorts of these Insects will of themselves in a very sew weeks become almost quite sent-less. To these I shall add another sweet-smelling Insect, which is a Hexapode-worm feeding on Gallium luteum.

The Observation of the Vespa Ichneumones, as it hath relation to Spiders, I willingly reserve for other Papers: yet I may tell you in general, that this kind of Insect is one of the greatest puzzels in nature; there being sew Excrescencies of Plants, and very many births of Insects, wherein these stender Wasps after divers strange ways are concerned.

Though I be at present from my Books, yet I well remember the passage, which Mr. IVilloughby refers you to in Musset. And he is well able to judge, * See N. mb. whether the Observation be made upon the same 74. f. 2221. fort of Insect. I conceive it a fault not con-instent with Ingenious Spirits, to pass by in silence the Industry

Sss 2

of Moderns as well as of Ancient Writers; according to that of C.Celsus: Opertet neque recentiones viros in his fraudare, que vel repererunt, vel recté secuti sunt; Etamenea, que ab antiquioribus posita sunt, authoribus suis reddere. You can best inform me, what D. Smammerdam does in a matter of this nature: when I read in the Account given us by you of his Book,
Numb. 64; that Snails are both Male and Female; that Caterpillars may teach us, by their seeding, the correspondence of the vertues of Plants, &c; I am desirous to know, whether he quote Mr. Ray for the former, as having publish't the Observation ten years ago at least; and for the latter, the Learned and Noble D. Co umna, who did propose the way of essaying the vertues of Plants by the pasats of Insects in the

beginning of this Age.

But I leave this, and proceed to a remark of my own; and it shall be, if you please, concerning Petrified Shells; I mean such Shells, as I have observed in our English stone Quarries. But Sir, let me premise thus much, that I am consident, that you at least will acquirme, and not believe me one of a lie tigious nature. This I say in reference to what I have lately read in Steno's Prodromus, that, if my sentiments on this particular are somewhat different from his, it proceeds not from a spirit of contradiction, but from a different view of Nature. First then, we will easily believe, that in some Countries, and particularly along the shores of the Mediterranean Sea, there may all manner of Sea shells be found promisewasty included in Rocks or Earth, and at good distances too from the Sea. Bur, for our English-inland Quarries, which also abound with infinite number and great varieties of shells, I am apt to think, there is no fuch matter, as Petrifying of Shells in the business (or, as Steno explains himself p. 84. in the English Version, & alibi, that the substance of those shells, formerly belonging to animals, hath been diffolved or wasted by the penetrating force of juices, and that a flony fubftance is come in the place thereof,) but that these Cockle-like stones ever were, as they are at prefent, Lapides fui generis, and never any part of an Animal. That they are so at present, is in essect confesfed by Steno in the above cited page; and it is most certain,

that our English Quarry shells (to continue that abusive name) have no parts of a different Texture from the rock or quarry they are taken, that is, that there is no such thing as shell in these resemblances of shells, but that Iron-stone Cockles are all Iron stone; Lime or marble all Lime stone and Marble; Sparre or Chrystalline-shells all Sparre, &c. and that they never were any part of an Animal. My reason is: That Quarries of different stone yeild us quite different sorts or species of shells, not only one from another (as those Cockle stones of the Iron-stone Quarries of Adderton in York-shire differ from those found in the Lead mines of the neighbouring mountains, and both these from that Cockle Quarrie of Wansford. bridge in Northampton shire, and all three from those to be found in the Quarries about Gunthrop and Beavour-Castle, &C;) but, I dare boldly say, from any thing in nature besides, that either the land, salt, or fresh water doth yeild us. Tis true, that I have picked out of that one Quarry of Waniford very resemblances of Murices, Telinæ, Turbines, Cochleæ, &c. and yet I am not convinced, when I particularly examined fome of our English shores for shells, also the fresh waters and the fields, that I did ever meet with (N.B.) any one of those species of shells any where else, but in their respective Quarries, whence I conclude them Lapides sui generis, and that they were not cast in any Animal mold, whose species or race is yet to be found in being at this day.

This argument perhaps will not fo readily take place with those persons, that think it not worth the while exactly and minutely to distinguish the several species of the things of nature, but are content to acquiesce in figure, resemblance, kind, and such general notions; but when they shall please to condescend to heedful and accurate discriptions, they will, I doubt not, be of that opinion, which an attentive view of these things led me into some years ago. Though I make no doubt, but the Repository of the R. Society is amply furnished with things of this nature; yet if you shall command them, I will send you up two or three for s of our English Cocklestones of different Quarries, nearly resembling one the other and all of them very like a common fort of Sea-shell, and yet

if there shall not be enough specifically to distinguish them, and hinder them from being sampled by any thing of the spoils of the Sea or fresh waters or the land-snails; my argument will fall, and I shall be happily convinced of an Errour.

Another Letter, written of the same Gentleman, from York Sept. 13. 1671. enlarging his former Communications in Numb. 75. about Vegetable Excrescencies, and Ichneumon-Worms.

SIR,

filent of the opinion, which Mr. Willoughby is pleased to favour; and because that worthy Gentleman hath so far made it probable, that now it seems only to depend upon the good fortune of some lucky Observer, I am willing to reassume my former thoughts, that all those odd Observations, we have made of the Births of Ichneumons, do but beget in me a strong belief, that they have a way yet unheeded, whereby they do as boldly, as subtly, convey their Eggs within the Bodies of Infects and parts of Vegetables.

A fifth and last proposition of that Paper * was, that the subflance of many Vegetable Excrescencies seemed not to be
* See Rumb. the food of the worms to be found in them. My mean75. p. 2254. ing was, that the substance of the Vegetable Excrescencies in which those Ichneumon worms were
to be found, was rather augmented, than diminished or worms
eaten. And the like conformity of their feeding within In-

fects is well observed by Mr. Willoughby *, that

* See above in
the imprægnated Caterpillars seem not to be concerned, though their bodies are full of Insects of

a quite different kind, but go on as far as they may towards the atchievement of the perfection of their own species. Thus I have seen a Poppy-head swoln to a monstrous bulk, and yet all the Cells were not receptacles of Ichnoumons, but some had good and ripe seed in them. I shall not resule Mr. Willoughby (though you know upon what grounds